

 a

tray with
, wherein
rality of
to 25mm,
rality of
center-to-
l tray w
of from 2
tray witho
from 10% t

tray with
, wherein
rality of
to 25mm,
rality of
center-to-
l tray w
of from 2
tray witho
from 10% t

tray with
, wherein
rality of
to 25mm,
rality of
center-to-
l tray w
of from 2
tray witho
from 10% t

tray with
, wherein
rality of
to 25mm,
rality of
center-to-
l tray w
of from 2
tray witho
from 10% t

tray with
, wherein
rality of
to 25mm,
rality of
center-to-
l tray w
of from 2
tray witho
from 10% t

tray with
, wherein
rality of
to 25mm,
rality of
center-to-
l tray w
of from 2
tray witho
from 10% t

tray with
, wherein
rality of
to 25mm,
rality of
center-to-
l tray w
of from 2
tray witho
from 10% t

tray with
, wherein
rality of
to 25mm,
rality of
center-to-
l tray w
of from 2
tray witho
from 10% t

up
a

~~with
rei
y c
-t~~

of from $1.2d$ to $3d$,

4. A perforated tray tower without downcomer, comprising a plurality of perforated trays without downcomer disposed respectively at a plurality of stages, each of the plurality of perforated trays without downcomer being provided with a plurality of holes, wherein

each of the plurality of holes has a diameter d in a range of from 10mm to 25mm,

the perforated tray without downcomer has a thickness in a range of from 2mm to 8mm,

the perforated tray without downcomer has an opening ratio in a range of from 10% to 30%, and

each of the plurality of holes is separated from an adjacent hole by a center-to-center distance in a range of from $1.2d$ to $3d$,

wherein, if one or more of the plurality of perforated trays without downcomer are used at the same stage, the two most closely located holes that respectively belong to adjacent perforated trays are separated from one another by a center-to-center distance in a range of from 50mm to 150mm.

5. The perforated tray tower without downcomer as

00505743-024900

END
C, P, L

7.93.07